



Utah League of Cities and Towns

ULCT

Road School

City Street & County Road School

April 19-22

2019

Dixie Center, St. George, Utah

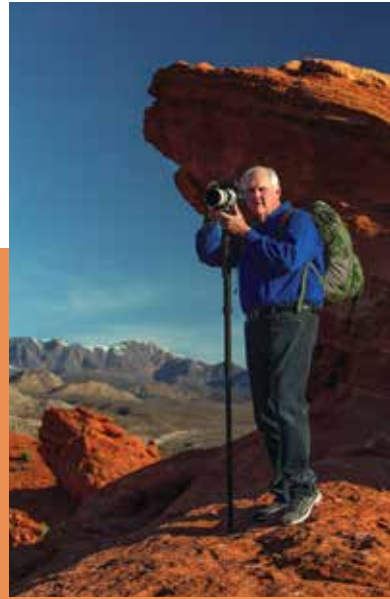
City Street & County Road School



Lynn Chamberlain

Professional Outdoor Photographer

Few people get the same perspective of Utah's great wildlife as Lynn Chamberlain. A veteran photographer of more than four decades and professional biologist, he's just surpassed twenty years working in public relations and education for the Utah Division of Wildlife Resources. Hear his stories and see video documentation of life on the wild side in Utah's backcountry.



Road School Agenda 2016

Activities

Tuesday, April 19 Golf Tournament

Sunbrook Golf Course in St. George

Check in: 11:30 am – 12:30 pm (lunch provided)

Tee off: 1:00 pm

Entry Fee: \$80

2366 Sunbrook Drive, St. George

Tuesday, April 19 Sporting Clays Tournament

Purgatory Clay Sports at the Southern Utah Shooting Sports Park

9:00 am – 5:00 pm (shoot anytime)

Bring your gun and 50 rounds of shells

5650 West 700 South, Hurricane (just west of the Regional Fairgrounds)

Wednesday, April 20 Reception and Entertainment

Hosted by Cate Equipment

5:30 pm – 8:30 pm

Room: Dixie Center Ballroom

Thursday, April 21 Keynote Speaker, Lynn Chamberlain

Professional Outdoor Photographer “Where Utah’s Wild Things Are”

9:45 am – 10:40 am

Lynn Chamberlain has spent the last 40 years photographing the wildlife and wild places of the United States. His interest in nature photography led him to earn a Bachelor of Science degree in biology and a Bachelor of Arts degree in photography. Over the years he has traveled throughout much of North America from Maine to California and Alaska to Hawaii capturing the beauty of the land and the majesty of its wildlife through his camera’s lens. His photography has been published in many national magazines, several books, and numerous other publications.

Lynn has a lot of experience promoting outdoor photography on television. He was the producer and host of the “Photo Tips” segment of a television show entitled “Utah Wild” which aired on PBS for 8 years. In 2006 and 2007 he produced and hosted a weekly show for The Outdoor Channel called “Outdoor Photo Adventures”. He is now engaged in the production of photography education videos that are available on the internet.

Lynn is a native of Southwestern Utah and currently lives in Toquerville, Utah.

Room: Sunbrook ABC

Friday, April 22 Joint Highway Committee Meeting

9:30 am – 11:30 am

Room: Entrada BC

Tuesday, April 19 Activities at a Glance

8:00 am – 5:00 pm	Fundamentals of PROW ADA Ramp Design, Layout, Inspection and Construction	ENTRADA BC
9:00 am – 5:00 pm	Shooting Tournament	PURGATORY CLAY SPORTS
11:30 am – 12:30 pm	Golf Tournament Check-In	SUNBROOK GOLF COURSE

Wednesday, April 20 Activities at a Glance

8:00 am – 10:00 am	Continental Breakfast		EXHIBIT HALL
8:00 am – 12:00 pm	Roadway Drainage		ENTRADA BC
8:00 am – 12:00 pm	ATSSA Flagger Certification		SUNBROOK AB
8:00 am – 4:00 pm	Registration Desk Open		EXHIBIT HALL
8:00 am – 4:00 pm	Exhibits Open		EXHIBIT HALL
11:45 am – 12:50 pm	Opening Lunch Buffet		EXHIBIT HALL
1:00 pm – 1:50 pm SESSION 1 ENTRADA BC New Technologies in Scrub Seal	1:00 pm – 1:50 pm SESSION 2 SUNBROOK AB Utilizing Drones for Engineering	1:00 pm – 1:50 pm SESSION 3 SUNBROOK C Sexual Harrassment- Why Isn't It Going Away?	1:00 pm – 1:15 pm SESSION 4 SOUTH PARKING LOT Hydro Excavation Demo
1:50 pm – 2:00 pm	Break/Vendor Time		EXHIBIT HALL
2:00 pm – 2:50 pm SESSION 5 ENTRADA BC Utility Agreements and Coordination	2:00 pm – 2:50 pm SESSION 6 SUNBROOK AB Back to Black: Better Options for Snow Removal	2:00 pm – 2:50 pm SESSION 7 SUNBROOK C Roads Finally Done Right	2:00 pm – 2:50 pm SESSION 8 ENTRADA A Advantages of Temporary Portable Rumble Strips
2:50 pm – 3:10 pm	Break/Vendor Time		EXHIBIT HALL
3:10 pm – 4:00 pm SESSION 9 ENTRADA BC Asphalt: Challenges and Opportunities Roundtable		3:10 pm – 4:00 pm SESSION 10 SUNBROOK AB Just Don't Say It!	
3:10 pm – 4:00 pm SESSION 11 SUNBROOK C Designing for Pedestrian and Bicycle Safety	3:10 pm – 4:00 pm SESSION 12 AUDITORIUM Class V (UIC) Program Overview	3:10 pm – 4:00 pm SESSION 13 ENTRADA A Crash Sharing Data- UDOT	
5:30 pm – 8:30 pm	Cate Equipment Reception		BALLROOM

Thursday, April 21 Activities at a Glance

8:00 am – 10:00 am		Continental Breakfast		EXHIBIT HALL	
8:00 am – 4:00 pm		Registration Desk Open		EXHIBIT HALL	
8:00 am – 2:00 pm		Exhibits Open		EXHIBIT HALL	
8:00 am – 5:00 pm		Traffic Control Technician (TCT)		ENTRADA BC	
8:30 am – 9:20 am SESSION 14 SUNBROOK AB Retirement Strategies		8:30 am – 9:20 am SESSION 15 AUDITORIUM Team Rubicon- Emergency Assistance for Public Works		8:30 am – 9:20 am SESSION 16 ENTRADA A Energy Management and LED Streetlights	
9:00 am – 12:00 pm		Truck Road-eo		OUTSIDE SW PARKING LOT	
9:20 am – 9:45 am		Break/Vendor Time		EXHIBIT HALL	
9:45 am – 10:40 am SUNBROOK ABC KEYNOTE SPEAKER: Lynn Chamberlain, Professional Outdoor Photographer "Where Utah's Wild Things Are"					
10:40 am – 11:00 am		Break/Vendor Time		EXHIBIT HALL	
9:50 am – 10:40 am SESSION 17 SUNBROOK ABC Placing the Power of GIS in the Hands of Road Crews		9:50 am – 10:40 am SESSION 18 OUTSIDE E PARKING LOT Danger! High Voltage Power Lines		9:50 am – 10:40 am SESSION 19 AUDITORIUM Inspector Gadgets, Tools, and Tips for Pipe Installation	
9:50 am – 10:40 am SESSION 20 ENTRADA A B&C Road Funds Application Process and Status					
12:00 pm – 1:00 pm		Lunch		EXHIBIT HALL	
1:00 pm – 1:50 pm SESSION 21 SUNBROOK ABC High Performance De-Icers		1:00 pm – 1:50 pm SESSION 22 SUNBROOK C Slab Jacking-Mud Pumping to Address Grade Differentials		1:00 pm – 2:50 pm SESSION 23 AUDITORIUM IPMA Tip of the Week Greatest Hits (1:50 SESSION)	
1:00 pm – 1:50 pm SESSION 24 ENTRADA A Highway-Railroad Grade Crossing Safety Improvement					
1:50 pm – 2:00 pm		Break/Vendor Time		EXHIBIT HALL	
2:00 pm – 2:50 pm SESSION 25 SUNBROOK AB Causes of Distress in Asphalt Concrete Pavements		2:00 pm – 2:50 pm SESSION 26 SUNBROOK C Benefits of Cooperative Purchasing		2:00 pm – 2:50 pm SESSION 27 ENTRADA A Marrying Your City Specs with APWA Specs	
2:50 pm – 3:10 pm		Break		EXHIBIT HALL	
3:10 pm – 4:00 pm SESSION 28 SUNBROOK AB Planning for Success in the Road Race		3:10 pm – 4:00 pm SESSION 29 Pavement Management from an Owner's Perspective		3:10 pm – 4:00 pm SESSION 30 GIS Mapping Across the Enterprise	
3:10 pm – 4:00 pm SESSION 31 ENTRADA A Horizontal Directional Drilling Method Statement					
Dinner on Your Own					

Friday, April 22 Activities at a Glance

8:00 am – 10:00 am	Continental Breakfast	NORTH HALLWAYS
8:00 am – 11:00 am	Registration Desk Open	MAIN LOBBY
8:30 am – 9:20 am SESSION 32 SUNBROOK AB How to Fund the Unfundable Projects– The New Gas Taxes and Other Options	8:30 am – 9:20 am SESSION 33 SUNBROOK C The Common Plan of Development SWPPP	8:30 am – 9:20 am SESSION 34 AUDITORIUM APWA Asphalt Specifications
9:30 am – 10:20 am SESSION 35 SUNBROOK AB Bridge Inspections and Bridge Management	9:30 am – 10:20 am SESSION 36 ENTRADA A Best Management Practices Friend or Foe	
10:20 am – 10:30 am	Break	HALLWAY
10:30 am – 11:20 am SESSION 37 SUNBROOK AB Innovative Applications of Central Plant Recycling: A Case Study from Tooele County	10:30 am – 11:20 am SESSION 38 SUNBROOK C Asphalt Milling – Best Practices	
11:30 am	Closing Lunch and Drawing	GARDEN ROOM

Tuesday, April 19

8:00 am – 5:00 pm	Fundamentals of PROW ADA Ramp Design, Layout, Inspection and Construction	Entrada BC
9:00 am – 5:00 pm	Shooting Tournament	Purgatory Clay Sports
11:30 am – 12:30 pm	Golf Tournament Check-In and Lunch	Sunbrook Golf Course

CLASS DESCRIPTION	Fundamentals of PROW ADA Ramp Design, Layout, Inspection and Construction
	8:00 am –5:00 pm Preregister with Utah LTAP Center INSTRUCTOR: Nick Jones, Utah LTAP; Lynn Jarman, Salt Lake City Engineering; Roland Stanger, FHWA ROOM: Entrada BC Utah LTAP Registration required for this course - \$65 fee

In this full day workshop, participants will discuss the fundamentals of public rights-of-way ADA accessibility design, layout, inspection, and construction. Actual layout of curb cut assemblies will be a major topic of discussion, including a step-by-step process, and a field exercise to improve understanding of topics discussed in the classroom. Workshop topics will include ADA history, enforcement of ADA, transition plans, 2011 PROW Proposed Accessibility Guidelines, APWA and UDOT standards, and lessons learned from practical experience. The most up to date information regarding the federal government’s timeline to complete the rulemaking process for PROW accessibility guidelines will be presented

Wednesday, April 20

8:00 am – 10:00 am	Continental Breakfast	Exhibit Hall
8:00 am – 12:00 pm	Chip Seal Practices	Entrada BC
8:00 am – 12:00 pm	ATSSA Flagger Certification	Sunbrook AB
8:00 am – 4:00 pm	Registration Desk Open	Main Lobby
8:00 am – 4:00 pm	Exhibits Open	Exhibit Hall
11:45 am – 12:50 pm	Opening Lunch Buffet	Exhibit Hall

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1:00 pm – 1:50 pm **CONCURRENT WORKSHOPS**

SESSION 1	New Technologies in Scrub Seals
	SPEAKER: Ryan Proctor , Technical Marketing Manager Ergon Asphalt & Emulsions ROOM: Entrada BC

Hear a brief introduction to scrub seals and join in a discussion about new technologies and options in the industry.

SESSION 2	Utilizing Drones for Engineering
	SPEAKER: Randy Wahlen , Oldcastle Precast ROOM: Sunbrook AB

There are a number of factors to consider before investing in a drone and video camera system. The legal aspects of drone use are still being established, but there are a number of technical issues that the user should also consider. Many of these technical issues are familiar in concept to engineers like GPS control, wayfinding through google maps, and telemetry data. We'll show you actual drone footage from different types of projects to illustrate the utility of aerial photography. If conditions permit, a short field demonstration may follow.

SESSION 3

Sexual Harassment – Why Isn't It Going Away?

SPEAKER: Paul Johnson, Utah Risk Management Mutual Association

ROOM: Sunbrook C

This presentation will include a discussion of what sexual harassment is, and what it is not. We will go over the current legal status of harassment and discuss how to avoid it and what to do if it's happening in your workplace.

SESSION 4

**Sewer Cleaner Truck Hydro Excavation Truck
15 Minute Demo**

SPEAKER: Dean Peake, Regional Sales Manager, Aquatech

ROOM: OUTDOOR DEMONSTRATION

CATE EXHIBIT AREA, SOUTH PARKING LOT

Participate in an outdoor walk-around and demonstration of the Aquatech B-10/1450 combination truck. This truck has a 27" positive displacement vacuum system on it. While 27" blowers are common on hydro-excavation trucks, this is the largest blower on a purpose built sewer cleaning truck. The large size blower enables much faster and more efficient work in deeper holes and during digging.

2:00 pm – 2:50 pm

CONCURRENT WORKSHOPS

SESSION 5

Utility Agreements and Coordination

SPEAKERS: Craig Friant, P.E., Project Manager, J-U-B Engineers, Inc.
John Powell, P.E., Project Manager, J-U-B Engineers, Inc.

ROOM: ENTRADA BC

Have you ever been asked what the biggest risk is on your project? Utility impacts are usually one of the most common answers. Utilities have the potential to cause delay or add cost to any construction project. The solution is early and proactive utility management. In this session, Craig Friant and John Powell will discuss utility management practices that can be used on any size project. They will also share best practices from several recent projects including the I-15 South Davis Operational Upgrades and Provo/Orem Transportation Improvement projects.

SESSION 6

**Getting Back to Black Quickly: Better Options for
Snow Removal**

SPEAKERS: Terry Thompson, Territory Sales Manager, Legacy Equipment Company
Tim Fox, Territory Sales Manager, FORCE America

ROOM: Sunbrook AB

This Class will provide information and ammunition to Snow fighters that will help them get back to safe black road as quickly as possible. There will be discussions pertaining to equipment, set up of the snow fleets, routing and methods used for modern day battle with Mother Nature's winter challenges.

SESSION 7

Finally Done Right

SPEAKER: **Doug Angus**, General Manager, Asphalt Zipper, Inc.
ROOM: Sunbrook C

Full-Depth Reclamation (FDR) is now easier and more affordable for any size city or county. FDR is the process where a road reclaimer is used to pulverize existing pavement and road materials into a reusable form, helping solve base problems, rather than just covering them up with a temporary fix. Since the 1960s asphalt reclamation with large self-contained asphalt reclaimers has gained popularity but has been too expensive for many. Now every city or county can afford the benefits of what only could be afforded by some. Come find out why so many are turning to FDR to stretch current budget dollars plus getting more roads repaired without increasing budget dollars

SESSION 8

Temporary Portable Rumble Strips

SPEAKER: **John Leonard**, Operations Engineer Division of Traffic and Safety, Utah Department of Transportation
ROOM: Entrada A

Whether you call 'em drunk bumps or rumble bumps, those plastic safety systems along the side of the road have awakened many-a-driver behind the wheel drifting outside of the lane late at night. Hear the benefits of portable rumble strips for temporary work zones. Learn about their effectiveness in modifying traffic flow and improving safety, and hear about their ease of installation, removal, and reusability.

3:10 pm – 4:00 pm

CONCURRENT WORKSHOPS

SESSION 9

Asphalt Challenges and Opportunities- An Industry Roundtable Discussion

SPEAKERS: **Reed Ryan**, Executive Director, Utah Asphalt Pavement Association (UAPA); **CJ Davis**, Holbrook Asphalt; **Victor Johnson**, Geneva Rock Products; **Ryan Proctor**, Ergon Asphalt & Emulsions; **Waylund Ludlow**, Geneva Rock Products; **Aaron Edwards**, Nu Rock Asphalt Coatings
ROOM: Entrada BC

Utah city and county roads are the most expensive capital investment that they. During this presentation representatives from both the production/construction and the preservation of asphalt will present on current industry trends and topics important to contractors and owners in Utah. After their presentation, the floor will then be open to address questions from attendees in an open discussion format.

SESSION 10

Just Don't Say It!

SPEAKER: **Joanne Glantz-Mahannah**, Training Director, Speak Easy
ROOM: Sunbrook AB

At work you are required to interact successfully with a wide variety of personalities. You have to use a professional face regardless of personal feelings. But storing up those personal feelings can lead to burnout and conflict with co-work-

ers or citizens. Learn techniques available to communicate under pressure. There are actions, words, and phrases that can assist you in minimizing conflict and burn-out at work, and at the same time providing quality customer service. We'll teach you how to think it and feel it BUT DON'T SAY IT!

SESSION 11 **Class Designing for Pedestrian and Bicycle Safety**

SPEAKER: **Nick Jones** Utah Local Technical Assistance (LTAP)
ROOM: Sunbrook AB

Nationally the percentage of Pedestrian and Bicycle fatalities during the last year was about 12% of all vehicle fatalities. In Utah the percentage of bicycling fatalities is 20% of all vehicle fatalities. Pedestrians and bicyclists' percentage has increased significantly in the past few years. In fact, the percentage of people not getting drivers licenses are becoming more prevalent. New designs for accommodating bicycles and pedestrians in our transportation corridors have been changing rapidly. This session will present some new ideas in how to accommodate them in our corridors much more safely, and remind us that roads are not only for cars.

SESSION 12 **Class V Underground Injection Control (UIC) Program Overview**

SPEAKER: **Briana Ariotti**, Environmental Scientist, DEQ/Division of Water Quality
ROOM: Sunbrook C

The UIC Class V Program is very broad and regulates numerous types of wells including storm water drainage wells, large capacity septic systems, environmental remediation wells, and motor vehicle waste disposal wells. Do you have one of these "wells" that discharges to the subsurface? If so it may be under the regulatory authority of the UIC Program. Join a discussion about the numerous types of Class V wells and learn how DEQ/DWQ coordinates the regulation of these wells within its division, with other agencies, and with local authorities.

SESSION 13 **Online Tools for Crash Analysis**

SPEAKERS: **W. Scott Jones**, Safety Programs Engineer
Utah Department of Transportation; **Clancy Black**, Traffic Engineer, WCEC Engineers
ROOM: Entrada A

Has getting access to crash data seemed elusive to you? Have you wanted to explore crash patterns to see what safety improvements should be considered? This session is intended to point you in the right direction. We will be demonstrating how you can access online crash data and analysis tools with information specific to the roads in your community. You will be impressed by the simple user interface, graphics, and maps that are available for your use.

5:30 pm –8:30 pm **Cate Equipment Reception & Entertainment**

Thursday, April 21

8:00 am – 10:00 am	Continental Breakfast	Exhibit Hall
8:00 am – 4:00 pm	Registration Desk Open	Exhibit Hall
8:00 am – 2:00 pm	Exhibits Open	Exhibit Hall
8:00 am – 4:00 pm	LTAP Traffic Control Technician Training Preregister with LTAP	Entrada BC

8:30 am – 9:20 am CONCURRENT WORKSHOPS

SESSION 14 Maximizing Your State Retirement Benefits

SPEAKER: **Mike Wilson**, Retirement Planning Advisor, Utah Retirement Systems
ROOM: Sunbrook AB

Your state pension plan is an incredibly rich retirement benefit. But will it be enough to support you throughout a potential retirement period of 20-30 years or more? Please come to this informative, educational workshop so you can understand how your pension works, and what you can be doing now beyond your pension to maximize your retirement benefits and retirement readiness!

SESSION 15 Team Rubicon: Emergency Management Assistance for Public Works

SPEAKERS: **Steve Nielson**, Field Operations Coordinator
Team Rubicon
ROOM: Auditorium

Team Rubicon's primary mission is providing disaster relief to those affected by natural disasters, be them domestic or international. By pairing the skills and experiences of military veterans with first responders, medical professionals, and technology solutions, Team Rubicon aims to provide the greatest service and impact possible. Learn how this highly skilled and dedicated team of volunteers is willing and ready to offer assistance to your agency should disaster ever strike.

SESSION 16 Energy Management and LED Streetlights

SPEAKERS: **Scott Thompson**, Co-Founder, DiVi Energy, LLC
Elton Jazexhiu, Sales Engineer, DiVi Energy, LLC
ROOM: Entrada A

Energy management has become a critical element of effective asset management for municipalities. In this workshop we will cover the following topics to simplify the process of implementing municipal energy projects: evaluating potential energy projects, how to approach an energy project, how to calculate estimated savings, exterior and interior LED lighting options, new fixtures vs. retrofitted lamps, current incentives for exterior and interior lighting, ways to simplify and streamline and energy project.

9:45 am – 10:40 am **KEYNOTE SPEAKER**
Lynn Chamberlain
Professional Outdoor Photographer
"Where Utah's Wild Things Are"
ROOM: Sunbrook ABC

What frolics, hunts, and lurks in Utah's great outdoors? Lynn Chamberlain watches and waits with his camera. Enjoy the sites he's captured with through lens with great precision and detail. They are images few ever have an opportunity to view first hand.

11:00 am – 11:50 am **CONCURRENT WORKSHOPS**

SESSION 17 **Placing the Power of GIS in the Hands of Road Crews**

SPEAKERS: **Adam Perschon**, GIS Specialist, Jones & DeMille Engineering, Inc.; **Ryan Jolley**, Principal; **Michael Hawley**, Principal; **Scott Christensen**; San Juan County Road Dept.
ROOM: Sunbrook AB

GIS sounds like it is useful and important and...somewhat intimidating. That is, until your smartphone becomes the way information is entered and viewed. Advances in mobile technology and GIS cloud services are changing the way infrastructure is planned and tracked. We will show actual examples of how these technologies can "meet the road." But remember – "Don't GIS and drive!"

SESSION 18 **Danger: High Voltage Power Lines**

SPEAKER: **Kent Larson**, Line Crew Supervisor, St. George Energy Services
ROOM: Adjacent to NE Dixie Center Parking Lot

Want to see a quick way to cook a pumpkin? Step outside the Dixie Center's east parking lot for a powerful reminder of the intensity of high voltage power lines. If you haven't seen this demonstration before, you owe it to yourself to check it out. Learning about the danger of working near high voltage lines may save your life. This demonstration is not for the faint of heart.

SESSION 19 **Inspector Gadgets, Tools, and Tips for Pipe Installation**

SPEAKER: **Jason M. Allen**, P.E., Mountain States Concrete Pipe Association
ROOM: Auditorium

Different types of pipe are as different as the people that install them. As inspectors you need to know what the proper installation methods are for each type of pipe. This presentation will help inspectors and installers know what to look for when installing rigid and flexible pipes underneath roadway sections. We will discuss the differences between pipe types, and the differences in installation methods, in addition to watching videos and eating candy. Yes, there will be candy. And yes, this is a shamelessly not-so-subtle way of bribing you to come to this presentation.

SESSION 20 B&C Road Funds Application Process and Status

SPEAKER: **Jeff Ericson**, Ericson, Road Inventory Supervisor,
Program Development, UDOT
ROOM: Entrada A

Learn everything you need to know about the application process, requirements, documentation, current status, and updating your city or county mileage to the state for allocation of Class B & C road funds.

12:00 pm – 1:00 pm **Lunch**

1:00 pm – 1:50 pm **CONCURRENT WORKSHOPS**

SESSION 21 High Performance De-icers – Which Products Melt the Most Snow and Ice?

SPEAKER: **Dave Wilkening**, PhD Chemist, De-icing Specialist
Wilkening & Associates
ROOM: Sunbrook AB

With all the de-icing chemicals out there today, often times it becomes confusing to decipher which products are truly “high performance!” The purpose of this workshop is to discuss best practices in winter maintenance, understand the science of de-icing, and review how high performance de-icers can be integrated into your winter maintenance program. Hopefully this workshop will help dispel the myths behind high performance products and answer questions on how to get the biggest bang for your buck.

SESSION 22 Slab Jacking/ Mud Pumping to Address Grade Differentials

SPEAKER: **Tim Peters**, Public Services Manager, City of
West Jordan
ROOM: Sunbrook C

Slab Jacking/Mud Pumping is a very fast and efficient way to eliminate trip steps and grade differentials. Why bother with the time consuming process of removing and replacing sunken concrete when it can be repaired in minutes using slab jacking methods? The City of West Jordan has had great success with the mud pumping process and as a result, we have eliminated a vast number of “trip steps.”

**SESSION 23 IPMA Tip of the Week Greatest Hits
(1 hour 50 minute session)**

SPEAKER: **Blair Barnhardt**, APM, Founder, The Barnhardt
Group, LLC
ROOM: Auditorium

Blair has traveled all over this great Country interviewing Public Works agencies and Pavement Specialists. This is an opportunity to view some of those powerful interviews and the VALUABLE lessons learned from each and every one! He'll explain the importance of planning the “Right Road, Right Treatment, Right Time and Right Contractor.”

SESSION 24

Highway Railroad Grade Crossing Safety Improvement Program

SPEAKERS: **Eric Cheng**, Chief Railroad Engineer, Utah Department of Transportation

Travis Bailey, Project Engineer, AECOM

ROOM: Entrada A

This presentation will address the process of a railroad crossing diagnostic surveillance review, when UDOT should be involved with new driveways near a rail corridor, actions that the Department is taking to updating the FRA railroad crossing inventory in the state and efforts by the Department to utilize federal safety money to make crossings safer. We will discuss the procedure a city should follow to request a new crossing and highway authority's responsibility for railroad crossing safety. We will also discuss our current and future railroad crossings improvement projects as well as recently established safety standards. Procedure for quiet zone request will also be discussed.

2:00 pm – 2:50 pm **CONCURRENT WORKSHOPS**

SESSION 25

Causes of Distress in Asphalt Concrete Pavements

SPEAKER: **Stephen B. Seeds**, Senior Engineer, Applied Pavement Technology, Inc.

ROOM: Sunbrook AB

All roadway agency personnel involved with asphalt concrete pavement maintenance and rehabilitation (M&R) are familiar with all of the key forms of distress and deterioration. These individuals are also capable of selecting M&R treatments that can address the symptoms of these distresses—for example, selecting an asphalt concrete patch to repair a pothole. However, despite their familiarity, not everyone understands what the causes (or mechanisms) of these distresses are. Because of this, they often choose treatments that address the symptom, but not the underlying cause. Consequently, the treatment fails, the distress returns quickly, and the pavement must be repaired again. The purpose of this presentation is to help agency personnel identify and understand the causes of the key distresses so that they can do a better job of selecting M&R treatments that address the cause of the distress as well as the symptom.

SESSION 26

Benefits of Cooperative Purchasing

SPEAKER: **Greg Haglin**, President, Government Solutions Team

ROOM: Sunbrook C

Increase your awareness of the benefits of buying through cooperative purchasing. We will talk about simplifying the procurement process, avoiding duplication, getting national volume discounts, and having the ability to choose high quality, high value products as opposed to lower quality, low bid responses. Learn how you can save time and money through a legal purchasing pathway to high quality solutions under all contracts.

SESSION 27

Marrying Your City Specs with the APWA Standard Specifications

SPEAKER: Trace Robinson, Public Works Director/ City Engineer
ROOM: Entrada A

The APWA Standard Specification is a tool created to standardize construction activities and methods across the State of Utah. That being said, each City has its own unique set of specifications, drawings, and standards which are particular to their needs. This workshop will show how you can incorporate your City Specifications into the umbrella of the APWA Specification and avoid redundancy and the need for creating additional general specifications and drawings.

3:10 pm – 4:00 pm **CONCURRENT WORKSHOPS**

SESSION 28

Planning for Success in the Road Race

SPEAKERS: Mark Christensen, Project Manager, J-U-B Engineering
Kenneth Clark, Design Engineer, J-U-B Engineering
ROOM: Sunbrook AB

During disaster situations, first responders allocate treatment to patients, according to a system of priorities, to maximize the number of survivors. This procedure, known as triage, allows them to use their limited resources where they will be of the most benefit. Many road networks are in a “disaster” state where the available funds are insufficient to completely improve the existing road conditions. By applying the concepts of triage to your city’s roads, you can obtain the best possible benefit for the highest number of users. This approach is the best way to gain “buy-in” from the public in obtaining increased funding in the future to address your critical road needs. We will be presenting key principles, and the results of your submitted maintenance proposals, to aid your agency in developing a system of priorities for your roads that will start you on the way to a brighter pavement future.

SESSION 29

Pavement Management from an Owner’s Perspective

SPEAKER: James Chappel, Streets Division Manager
Spanish Fork City
ROOM: Sunbrook C

The asphalt is breaking up, the budget is tight, and resources are limited. What’s a department to do? We’ll tell you how the City of Spanish Fork developed a new approach a few years ago. The new strategy has been bringing down costs and improving city streets. We’ll talk about tracking, manpower, and budgeting in a long-term case study that’s sure to help other agencies throughout the state.

SESSION 30

Deploying GIS Across the Enterprise

SPEAKER: Derrick Sharp, GISP, GIS Manager, Horrocks Engineers
ROOM: Auditorium

This presentation will cover what GIS is and how it can be used by an organization to catalog, analyze and display their GIS data. We will showcase how GIS can be used by field crews and management to facilitate the data sharing. A discussion of planning a GIS implementation and how to use GIS for crowdsourcing will help attendees understand how to get the most out of their GIS investment.

Agenda Friday, April 22

SESSION 31

Horizontal Directional Drilling Installation Method

SPEAKER: **Brandon Yee**, District Sales Manager, The Toro Company
ROOM: Entrada A

Horizontal Directional Drilling (HDD) is a method of installing underground utilities without disrupting traffic, or the surrounding environment with minimal reinstatement cost. HDD also allows you install services under railroads, rivers, and other obstacles where it is impossible to open cut. The presentation will highlight the drilling process and the benefits of HDD over the open cut installation method.

Friday, April 22

8:00 am – 10:00 am **Continental Breakfast** North Hallways

8:00 am – 11:00 am **Registration Desk Open** Main Lobby

8:30 am – 9:20 am **CONCURRENT WORKSHOPS**

SESSION 32

How to Fund the Unfundable Projects – The New Gas Taxes and Other Options

SPEAKERS: **Brian Barton**, PE, Principal, Jones & DeMille Engineering, Inc.; **Michael Hawley**, Principal, Jones & DeMille Engineering, Inc.; **Brian Bremner**, Garfield County Engineer; **Michael Hansen**, Planner, Rural Community Consultants; **Eric Johnson**, Bond Counsel – Blaisdell, Church & Johnson
ROOM: Auditorium

Every local entity has transportation system needs. The historic rise in the cost of construction and maintenance efforts creates significant barriers to getting it done. Funding shortfalls in recent years have delayed critical improvements. However, recent gas tax changes inject important additional money into the system to help catch up. Many other funding options are available to supplement your efforts to enhance the quality of life of those you serve.

SESSION 33

Common Plan Construction Permit- A New Option for Small Lot Construction Sites

SPEAKER: **G. Ryan Taylor**, Professional Engineer
Epic Engineering
ROOM: Sunbrook C

The state of Utah recently adopted a new construction storm water permit to streamline the SWPPP process for small lots that are part of a common plan of development. Learn about the new permit requirement, when the permit can be used, and who can use it.

SESSION 34 **AWPA Asphalt Specifications**

SPEAKER: **Victor Johnson**, Geneva Rock
ROOM: Auditorium

Over the course of the past year the Utah Asphalt Pavement Association (UAPA) worked closely with the APWA to make some significant changes to the APWA specifications. With the 2016 season upon us, this session will focus on the significance of those changes and how they affect owners, cities, counties, contractors, and our industry moving forward. This session is designed for attendees to come in and gain a more complete understanding on the changes, how they affect mix designs, bidding, and construction of pavements under the APWA specs. In a season such as this where changes have been made, there is bound to be confusion. This session's goal is to help get those entities, particularly cities, counties, consultants, engineering firms, and others responsible for bidding, specifications, design, etc. on the same page with these changes that are now in place and supported by the APWA and UAPA.

9:30 am – 10:20 am

CONCURRENT WORKSHOPS

SESSION 35 **Bridge Inspections and Bridge Management**

SPEAKER: **Austin Ball**, Bridge Engineer, J-U-B Engineers
ROOM: Sunbrook AB

This workshop will include a discussion of bridge inspections reports, bridge management strategies, bridge preservation issues and potential funding sources. We will help attendees interpret bridge inspection reports to better understand the particulars of bridge reports. Strategies for managing a bridge inventory will be discussed. Preservation and rehabilitation measures will be briefly discussed. This discussion will be of benefit to all bridge owners, including counties, municipalities and other public agencies.

SESSION 36 **Best Management Practices Friend or Foe**

SPEAKER: **Thomas Beesley**, PE, RSR, RSI, Riverton City
ROOM: Entrada A

The success of a BMP is dependent upon its correct application as much as the BMP structure and how it is maintained. This presentation is from the perspective of a City inspector. It is a collection of lessons learned from years of reviewing BMPs and observing how contractors and City field staff have implemented them.

10:30 am – 11:20 am

CONCURRENT WORKSHOPS

SESSION 37

**Innovative Applications of Central Plant Recycling:
A Case Study from Tooele County Cold Plant Mix
Asphalt-Tooele County**

SPEAKER: **Rod Thompson**, Director, Tooele County Road
Department; **Timothy Biel**, President, CME Transportation
Engineering Group
ROOM: Sunbrook AB

Learn how Tooele County used reclaimed asphalt pavement RAP in the past and again in 2015 to complete Soldier and Ophir Canyon Roads and what the county is still learning from the experience. You'll see Go-Pro video clips, drone footage and still pictures in an interesting PowerPoint presentation as you hear Tooele County's interesting case study.

SESSION 38

Best Milling Practices

SPEAKER: **Jeff Ensell**, Director of Product Training, RoadTec
ROOM: Sunbrook C

For the highest quality surfacing, it's important to stay on top of the very best milling practices. Hear about the importance of patterns, drum styles, the use of electronics and other key factors that affect milling. Learn everything you need to know about quality milling from this RoadTec expert!

11:30 am

Closing Lunch and Prize Drawing

Garden Room

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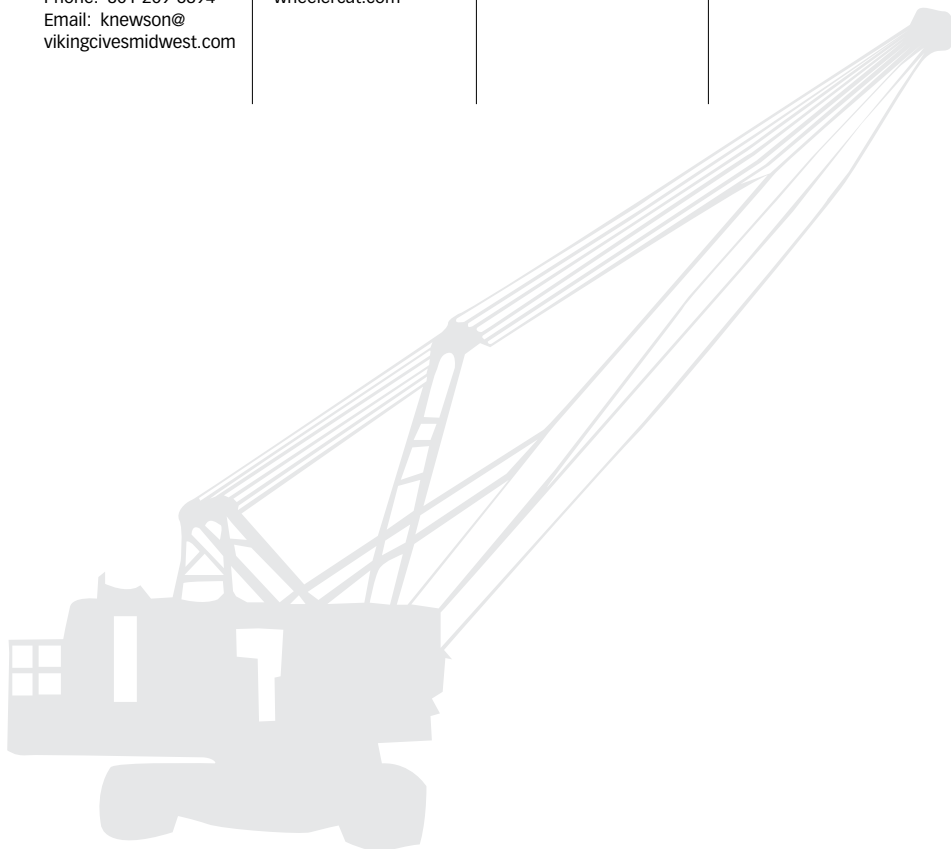
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